What is claimed is:

1.   A method of data access code generation, comprising:

     a)   describing a data object in a data object description document;

     b)   applying at least one code generation template to said data object description document;

     c)   generating at least one data access class.

2.   The method according to claim 1, wherein said data object description document conforms to a data object document type definition.

3.   The method according to claim 1, wherein steps b) and c) are performed by a data access code generator routine.

4.   The method according to claim 1, wherein said at least one data access class is a data access Java class.

5.   The method according to claim 1, wherein said data object description document is created in Extensible Markup Language (XML).

6.   The method according to claim 1, wherein said at least one code generation template is implemented in a transformation language.

7.   The method according to claim 6, wherein said transformation language is Extensible Stylesheet Language (XSL).

8.   The method according to claim 3, wherein said data access code generator takes said data object description document and said at least one code generation template as inputs and outputs said at least one data access class.

1   9.   A method of generating data access Java classes, comprising:

2   a)   creating a XML data object description;

3   b)   applying a plurality of code generation templates to said XML data object

4   description;

5   c)   generating at least one data access Java class.

1   10.   The method according to claim 9, wherein said XML data object description is

2   created pursuant to a data object document type definition.

1   11.   The method according to claim 9, wherein steps b) and c) are performed by a data

2   access code generator routine.

1   12.   The method according to claim 11, wherein said data access code generator takes

2   said XML data object description and said at least one code generation template as inputs

3   and outputs said at least one data access Java class.

1   13.   A method of data access code generation in an object-oriented programming

2   environment, comprising:

3   a)   describing a data object in a data object description document;

4   b)   applying at least one code generation template to said data object

5   description document;

6   c)   generating at least one data access class.

1   14.   The method according to claim 13, wherein said object-oriented programming

2   environment is Java.

1   15.   The method according to claim 13, wherein said data object description document

2   conforms to a data object document type description.

1   16.   The method according to claim 13, wherein said code generation template is an

2   Extensible Stylesheet Language (XSL) document.

1   17.   An apparatus for generating data access code comprising:

2   a)   a data object descriptor;

3   b)   a least one code generation template; and

4   c)   a code generator operative to generate at least one data access class.

1   18.   The apparatus according to claim 17, wherein said data object descriptor is

2   operative to describe a data object that conforms to a data object document type

3   definition.

1   19.   The apparatus according to claim 17, wherein said at least one code generation

2   template is operative to define the transformation of said data object description to said at

3   least one data access class.

1   20.   The apparatus according to claim 17, wherein said at least one data access class is

2   a data access Java class.

1   21.   The apparatus according to claim 17, wherein said data object descriptor is created

2   in Extensible Markup Language (XML).

1   22.   A program product, said program product comprising:

2   a)   memory; and

3   b)   a data access code generator stored on said memory, said data access code

4   generator being configured to perform the steps of,

5   i)   describing a data object in a data object description document;

6   ii)   applying at least one code generation template to said data object

7   description document; and

8   iii)   generating at least one data access class.

1   23.   The program product of claim 22, wherein said data object description document
2   conforms to a data object document type definition.

1   24.   The program product of claim 22, wherein said at least one data access class is a
2   data access Java class.

1   25.   The program product of claim 22, wherein said data object description document
2   is created in Extensible Markup Language (XML).

1   26.   The program product of claim 22, wherein said at least one code generation
2   template is implemented in a transformation language.

1   27.   The program product of claim 26, wherein said transformation language is
2   Extensible Stylesheet Language (XSL).

1   28.   The program product of claim 24, wherein said data access code generator takes
2   said data object description document and said at least one code generation template as
3   inputs and outputs said at least one data access class.

1   29.   A program product, said program product comprising:
2   a)   memory; and
3   b)   a program stored on said memory, said program being configured to
4   perform the steps of,
5   i)   creating a XML data object description;
6   ii)   applying a plurality of code generation templates to said XML data
7   object description; and
8   iii)   generating at least one data access Java class.

1   30.   The program product of claim 29, wherein said XML data object description is

2   created pursuant to a data object document type definition.

1   31.   The program product of claim 29, wherein steps ii) and iii) are performed by a data

2   access code generator routine.

1   32.   The program product of claim 31, wherein said data access code generator takes

2   said XML data object description and said at least one code generation template as inputs

3   and outputs said at least one data access Java class.

1   33.   A program product, said program product comprising:

2   a)   memory; and

3   b)   a program stored on said memory, said program being configured to

4   perform the steps of,

5   i)   describing a data object in a data object description document;

6   ii)   applying at least one code generation template to said data object

7   description document;

8   iii)   generating at least one data access class.

1   34.   The program product of claim 33, wherein said object-oriented programming

2   environment is Java.

1   35.   The program product of claim 33, wherein said data object description document

2   conforms to a data object document type description.

1   36.   The program product of claim 33, wherein said code generation template is an

2   Extensible Stylesheet Language (XSL) document.